



# Parts List

DL6  
GenSet

# INDEX

INTRODUCTION .....	A4
GENERATOR SET DATA TABLE .....	A4
ENGINE PARTS	
Alternator, Engine .....	B4
Alternator, Engine-Components .....	B4
Block, Cylinder .....	A5, A6
Cable, Battery .....	B3
Cleaner, Air .....	B6
Chassis .....	B7
Cooling System .....	B5
Fan and Shroud .....	B6
Filler, Oil - Rocker Cover .....	A12
Filter, Oil .....	A12
Flywheel .....	B1
Fuel System .....	A11
Gearcase .....	A9
Guard, Belt .....	B7
Head, Cylinder .....	A7, A8
Heater, Coolant .....	B9
Housing .....	B9
Housing, Flywheel .....	B1
Injection, Fuel .....	A10
Injection, Fuel - Components .....	A10
Manifold, Intake .....	A13
Manifold, Exhaust .....	A13
Muffler, Mounted .....	B8
Mount, Engine .....	B5
Outlet, Water .....	A14
Pan, Oil .....	A11
Plug, Glow .....	B3
Pump, Water .....	A14
Starter .....	B2
Starter - Components .....	B2
GENERATOR .....	B10
CONTROL	
Board Assembly, Circuit - Lower .....	C3
Board Assembly, Circuit - Upper .....	C2
Board Assembly, Mother .....	C4
Box, Output (With Circuit Breakers) .....	C1
Box, Output (Without Circuit Breakers) .....	B13, B14
Bracket Assembly, Control .....	C3
Control, Generator Set .....	C5
Harness, Wiring - Generator Set .....	C6
Housing, Control .....	B11
Monitor, Engine .....	C7
Panel, Meter .....	B12
Watts, and Power Factor Transducer .....	C6
Lift, Single Point .....	C7
SERVICE KITS AND MISCELLANEOUS .....	C8

## INTRODUCTION

This catalog applies to the standard DL6 Generator Sets as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Unless otherwise mentioned in the description, parts are interchangeable between models. Parts illustrations are typical. Using the model and specification number from your generator set nameplate, select the parts that apply to your set. Right and left sides are determined by facing the engine end (front) of the set.

### GENERATOR SET DATA TABLE

MODEL AND SPECIFICATION NUMBER	ELECTRICAL DATA				
	WATTS	VOLTS	HERTZ	WIRE	PHASE
25.ODL6-53R/*	25000	110/220	50	3	1
		115/230			
		120/240			
25.ODL6-515R/*	25000	110/190	50	12	3
		115/200			
		120/208			
		127/220			
		110/220			
		115/230			
		220/380			
		230/400			
30.ODL6-3R/*	30000	120/240	60	3	1
		120/208			
		127/220			
30.ODL6-15R/*	30000	139/240	60	12	3
		120/240			
		240/416			
		254/440			
		277/480			
		240/480			

\* - The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter(s). The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.

## CYLINDER BLOCK

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	110-	1	Block Assembly - Cylinder (Includes Parts Marked *)
2	110-2978	2	* Pin, Cylinder Head Alignment
3	720-1801	14	* Screw, Cap - Hex Head - Special
4	740-1801	14	* Washer, Flat - Special
5	PLUG, CUP		
	517-0141	6	* 50.8 MM Stainless Steel
	517-0144	2	* 12.7 MM Steel
	517-0146	1	* 31.75 MM Stainless Steel
6	517-0140	1	* Plug, Welch (57.15 MM) - Steel
7	PIN, ALIGNMENT		
	775-0074	2	* 8 MM X 20 MM
	775-0089	2	* 10 MM X 20 MM
	775-0078	2	* 8 MM X 40 MM
8	101-0511	1	* Bearing, Camshaft - Front
9	101-0471	6	* Bearing, Camshaft - Intermediate and Rear
10	123-1507	1	* Valve Assembly, Pressure Relief (Includes Parts Marked +)
11	123-1515	1	+ Body, Relief Valve
12	123-1514	1	+ Piston, Relief Valve
13	123-1508	1	+ Spring, Relief Valve
14	518-0410	1	+ Ring, Retaining
15	PLUG, PIPE		
	502-0153	1	* 6.35 MM - Brass
	505-0274	6	* 3.17 MM - Steel
16	516-2102	1	* Pin, Regulator Valve Spring
17	123-1514	1	* Piston, Regulator Valve
18	123-1511	1	* Spring, Regulator Valve
19	740-1004	1	* Washer, Flat (M6)
20	BEARING KIT, MAIN (INCLUDES UPPER AND LOWER BEARING HALF)		
			Front
	101-0689	1	Standard
	101-0690	1	0.25 MM Undersize
	101-0691	1	0.50 MM Undersize
	101-0692	1	0.75 MM Undersize
			Center
	101-0681	1	Standard
	101-0682	1	0.25 MM Undersize
	101-0683	1	0.50 MM Undersize
	101-0684	1	0.75 MM Undersize
			Intermediate (Except Center)
	101-0685	4	Standard
	101-0686	4	0.25 MM Undersize
	101-0687	4	0.50 MM Undersize
	101-0688	4	0.75 MM Undersize
			Rear
	101-0677	1	Standard
	101-0678	1	0.25 MM Undersize
	101-0679	1	0.50 MM Undersize
	101-0680	1	0.75 MM Undersize
25	114-0313	6	Rod, Connecting (Includes Parts Marked o)
26	114-0316	6	o Bushing, Connecting Rod (Semi Finished)
27	114-0315	12	o Bolt, Connecting Rod
28	114-0318	12	o Nut, Connecting Rod

## CYLINDER BLOCK (Continued)

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
29	BEARING, CONNECTING ROD (Half)		
	114-0319	12	Standard
	114-0333	12	0.25 MM Undersize
	114-0334	12	0.50 MM Undersize
	114-0335	12	0.75 MM Undersize
30	PISTON AND PIN KIT (INCLUDES RETAINING RINGS)		
	112-0201	6	Standard
	112-0202	6	0.25 MM Oversize
	112-0203	6	0.50 MM Oversize
	112-0204	6	0.75 MM Oversize
	112-0205	6	1.0 MM Oversize
31	112-0165	6	Pin, Piston
32	518-0409	12	Ring, Retaining - Piston Pin
33	RING KIT, PISTON		
	113-0233	6	Standard
	113-0234	6	0.25 MM Oversize
	113-0235	6	0.50 MM Oversize
	113-0236	6	0.75 MM Oversize
	113-0237	6	1.0 MM Oversize
34	104-1372	1	Crankshaft and Gear (Includes Key and Wear Sleeve)
35	509-0172	1	Sleeve, Wear
36	104-1138	1	Gear, Crankshaft
37	515-0245	1	Key, Woodruff (Special)
38	101-0606	1	Plate, Rear Seal (Includes Seal)
39	509-0174	1	Seal Kit, Oil - Rear (Includes Wear Sleeve)
40	101-0600	1	Gasket, Rear Seal Plate
41	718-1037	8	Screw, Cap - Hex Head (M8 X 25 MM)
42	740-1006	8	Washer, Flat (M8)
43	105-0512	1	Camshaft
44	105-0515	1	Gear, Camshaft
45	105-0534	1	Retainer, Camshaft
46	515-0245	1	Key, Camshaft Gear
47	115-0275	8	Tappet

\* - Parts Included In 110-\_\_\_\_\_ Cylinder Block Assembly.

+ - Parts Included In 123-1507 Pressure Relief Valve Assembly.

o - Parts Included In 114-0313 Connecting Rod Assembly.

## CYLINDER HEAD

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	110-	1	Head Assembly, Cylinder (Includes Valve Guides, Valve Seats, Plugs, Valves, Springs, Retainers, Collets, Wear Plates, Sleeves and Seals)
2	110-2981	1	Head, Cylinder (Includes Seats and Guides)
3	GUIDE, VALVE (SFMI FINISHED)		Intake
	110-2846	6	Standard
	110-	6	0.15 MM Oversize
	110-	6	MM Oversize
			Exhaust
	110-2847	6	Standard
	110-	6	0.15 MM Oversize
	110-	6	MM Oversize
4	SEAT, VALVE		Intake (Not Original Equipment)
	110-	6	Standard
	110-	6	0.15 MM Oversize
	110-	6	MM Oversize
			Exhaust
	110-2781	6	Standard
	110-	6	0.15 MM Oversize
	110-	6	MM Oversize
5	PLUG, CUP		
	517-0142	9	38.1 MM
	517-0146	4	31.75 MM
	517-0162	6	19.05 MM
6	110-3137	6	Plug, Hot (Swirl)
7	VALVE		
	110-3066	6	Intake
	110-2840	6	Exhaust
8	110-2692	12	Spring, Valve
9	110-3015	12	Retainer, Valve Spring
10	110-2752	24	Collet, Valve Lock
11	110-2991	12	Plate, Valve Spring Wear
13	110-3025	12	Seal Assembly, Valve Stem
14	110-2979	6	Sleeve, Sealing
15	403-1875	2	Bracket, Lifting
16	720-1802	26	Screw, Cap - Hex Head (M12 X 130 MM)
17	740-1801	20	Washer, Flat (M12)
18	110-3026	1	Gasket, Cylinder Head
19	STUD, ROCKER ARM		
	115-0204	6	Intake
	115-0270	6	Exhaust
20	115-0274	13	Guide, Push Rod
21	508-0228	3	Grommet
22	115-0253	12	Pushrod
23	120-0920	1	Tube, Rocker Arm Oil
24	502-0C03	1	Connector, Inverted Male
25	115-0201	12	Arm, Rocker
26	115-0202	12	Ball, Rocker Arm
27	526-2119	12	Washer, Flat
28	115-0290	12	Locknut, Rocker Arm

## CYLINDER HEAD (Continued)

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
29	110-3045	1	Adapter, Water Pump
30	123-1536	2	Tube, Breather
31	718-1053	4	Screw, Cap - Hex Head (M10 X 20 MM)
32	740-1008	4	Washer, Flat (M10)

# GEARCASE

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	105-0513	1	Gear, Idler (Including Bearing)
2	105-0519	1	Bearing, Idler Gear (Semi Finished)
3	105-0508	1	Shaft, Idler Gear
4	526-2127	1	Washer, Flat (M10)
5	718-1064	1	Screw, Cap - Hex Head (M10 X 75 MM)
6	103-0600	1	Backplate, Gearcase
7	120-0983	1	Shaft, Oil Pump Idler Gear
8	120-0885	1	Gear, Oil Pump Drive
9	718-1035	1	Screw, Cap - Hex Head (M8 X 16 MM)
10	526-2106	1	Washer, Flat
11	120-0984	1	Gear, Oil Pump Idler (Includes Bearing)
12	120-0982	1	Bearing, Oil Pump Idler Gear (Semi Finished)
13	526-2107	1	Washer, Flat
14	718-1035	1	Screw, Cap - Hex Head (M8 X 16 MM)
15	725-1802	1	Screw, Hex Socket Head (M16 X 16 MM)
16	103-0612	1	Gasket, Gearcase Backplate
17	SCREW, CAP - HEX HEAD		
	718-1037	1	M8 X 25 MM
	718-1039	1	M8 X 35 MM
18	725-1801	2	Screw, Low Socket Head Cap (M8 X 16 MM)
19	740-1006	7	Washer, Flat (M8)
20	103-0673	1	Gearcase (Includes Oil Seal and Oil Fill)
21	509-0161	1	Seal, Oil
22	103-0614	1	Gasket, Gearcase
23	SCREW, CAP - HEX HEAD		
	718-1046	2	M8 X 70 MM
	718-1043	2	M8 X 55 MM
	718-1085	4	M8 X 85 MM
24	WASHER, FLAT		
	740-1006	4	M8
	740-1010	4	M12
25	103-0618	1	Cover, Injection Pump Gear
26	509-0263	1	Seal, "O" Ring
27	SCREW, CAP - HEX HEAD		
	718-1048	1	M8 X 80 MM
	718-1044	2	M8 X 60 MM
	718-1036	1	M8 X 20 MM
28	509-0142	1	Seal, "O" Ring (Oil Fill Cap)
30	123-1300	1	Cap, Oil Fill
31	718-1041	2	Screw, Cap - Hex Head (M8 X 45 MM)
32	120-0979	1	Bearing, Oil Pump Drive Shaft
33	120-1014	1	Pump Kit, Oil (Includes Drive Shaft Bearing)
34	123-1558	1	Tube, Oil Fill



## FUEL INJECTION

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	PUMP, FUEL INJECTION		(See Separate Group For Components)
	147-0501	1	60 Hertz Sets
	147-0505	1	50 Hertz Sets
2	520-2403	3	Stud, Injection Pump (M8)
3	740-1006	3	Washer, Flat (M8)
4	750-1006	3	Nut, Hex (M8)
5	149-1765	1	Line, Fuel Injection (No. 1)
6	149-1766	1	Line, Fuel Injection (No. 2)
7	149-1767	1	Line, Fuel Injection (No. 3)
8	149-1768	1	Line, Fuel Injection (No. 4)
9	147-0562	6	Injector, Fuel (Includes Seal)
10	147-0436	6	Seal, Injector
11	147-0427	1	Gear, Injection Pump
12	502-0733	1	Connector
13	502-0057	1	Tee, Pipe - Special
14	149-1769	1	Line, Fuel Injection (No. 5)
15	149-1770	1	Line, Fuel Injection (No. 6)

## FUEL INJECTION PUMP COMPONENTS

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	147-0592	1	Strap, Terminal Grounding
2	147-0593	1	Solenoid and Frame Kit
3	147-0591	2	Washer, Terminal Insulating
4	147-0590	1	Gasket, Governor Cover
5	147-0589	1	Clip, Shaft Retaining
6	147-0588	2	Seal, Throttle Shaft
7	147-0587	2	Washer, Throttle Shaft Seal
8	147-0586	1	Washer, Guide Stud
9	147-0585	1	Gasket, Timing Line Cover
10	147-0584	1	Seal, Return Line Connector
11	147-0583	1	Washer, Locking Plate
12	147-0582	2	Seal, Pivot Shaft
13	147-0581	1	Screw, Cam Advance
14	147-0580	2	Seal, Head Locating Screws
15	147-0579	1	Connector, Return Line
16	147-0578	1	Nut, Drive Shaft
17	147-0612	1	Seal, Pilot Tube

NOTE: Injection pump components not listed, refer to your nearest Stanadyne dealer.

# FUEL SYSTEM

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	149-1827	1	Pump Kit, Fuel Transfer (Includes Mounting Gasket)
2	149-1728	1	Gasket, Fuel Transfer Pump
3	718-1021	3	Screw, Cap - Hex Head (M6 X 20 MM)
4	740-1004	3	Washer, Flat (M6)
5	149-1732	1	Pushrod, Fuel Transfer Pump
6	149-1755	1	Filter Assembly (Includes Filter, Base, and Clip)
7	149-1754	1	Filter Only, Fuel
8	149-1801	2	Clip, Fuel Filter
9	725-1074	2	Screw, Cap - Socket Head (M10 X 20 MM)
10	740-1008	2	Washer, Flat (M10)
11	502-0774	1	Elbow, Fuel Pump Outlet
14	502-0736	1	Plug
15	502-0738	1	Connector, Male
16	149-1797	1	Line, Fuel
17	149-1796	1	Line, Fuel
18	147-0446	6	Cover, Injector Nozzle
19	503-1055	1	Line, Fuel Return
20	503-1054	1	Line, Fuel Return
21	503-1053	5	Line, Fuel Return
22	502-0773	1	Connector
23	149-1835	1	Plug, Filter Drain
24	149-1836	1	Gasket, Filter Drain Plug
	149-1834	1	Repair Package - Fuel Pump

# OIL PAN

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	123-1524	1	Indicator, Oil Level
2	120-1006	1	Cup and Tube Kit, Oil Pickup (Includes Gasket)
3	120-0917	1	Gasket, Oil Pickup
4	SCREW, CAP - HEX HEAD		
	718-1044	2	M8 X 60 MM
	718-1036	2	M8 X 20 MM
5	740-1006	3	Washer, Flat (M8)
6	102-1018	1	Pan, Oil
7	503-0183	1	Clamp, Hose
8	102-1046	1	Gasket, Oil Drain
9	102-1036	1	Gasket, Oil Pan
10	815-0547	36	Screw, Cap - Hex Head (Includes Washer) - M8 X 20 MM
11	504-0010	1	Valve, Oil Drain
12	503-1069	1	Hose, Oil Drain
13	502-0415	1	Adapter, Hose
14	502-0772	1	Adapter, Oil Drain

## OIL FILLER - ROCKER COVER

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	115-0278	1	Cover, Rocker
2	115-0244	1	Gasket, Rocker Cover
3	115-0231	6	Capnut, Rocker Cover
4	115-0232	6	Gasket, Capnut
5	123-1520	1	Cap, Oil Fill (Includes Gasket)
6	123-1518	1	Gasket, Oil Fill Cap

## OIL FILTER

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	122-0567	1	Adapter, Oil Filter (Includes Gasket)
2	122-0500	1	Gasket, Oil Filter Adapter
3	505-0274	1	Plug, Pipe (3.175 MM)
4	122-0550	1	Filter, Oil
5	718-1039	2	Screw, Cap - Hex Head (M8 X 35 MM)
6	WASHER, FLAT		
	526-2108	2	M8
	740-1802	1	M8 - Special
7	725-1053	1	Screw, Socket Head Cap (M8 X 35 MM)

# INTAKE MANIFOLD

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	154-2259	1	Manifold, Intake
2	718-1801	8	Screw, Cap - Hex Head (M8 X 85 MM)
3	740-1006	8	Washer, Flat (M8)
4	147-0439	4	Clamp, Injection Lines
5	718-1022	2	Screw, Cap - Hex Head (M6 X 25 MM)
6	740-1004	2	Washer, Flat (M6)
7	154-2300	1	Gasket, Intake Manifold

# EXHAUST MANIFOLD

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	154-2295	1	Manifold, Exhaust
2	154-2162	4	Gasket, Exhaust Manifold
3	718-1048	12	Screw, Cap - Hex Head (M8 X 80 MM)
4	740-1006	12	Washer, Flat (M8)
5	154-2325	1	Gasket, Exhaust Manifold

# WATER OUTLET CONNECTOR

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	309-0473	1	Cover, Thermostat (Includes Gasket)
2	725-1056	4	Screw, Socket Head Cap (M8 X 50 MM)
3	309-0424	1	Gasket, Thermostat Cover

# WATER PUMP

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	131-0351	1	Pump Kit, Water (Includes Mounting Gaskets)
2	515-0245	1	Key, Woodruff
3	104-1199	1	Pulley, Crankshaft
4	740-1006	4	Washer, Flat (M8)
5	718-1035	4	Screw, Cap - Hex Head (M8 X 16 MM)
6	131-0342	1	Pulley, Water Pump
7	509-0264	1	Seal, "O" Ring
8	740-1006	3	Washer, Flat (M8)
9	718-1043	3	Screw, Cap - Hex Head (M8 X 55 MM)
10	511-0124	1	Bolt, Alternator and Water Pump Drive
11	502-0775	3	Plug, Brass - Hex Head
12	526-0283	1	Washer, Flat (M8)
13	720-1123	1	Screw, Cap - Hex Head (M16 X 60 MM)
14	131-0324	1	Spacer, Water Pump
15	131-0294	2	Gasket, Water Pump Mounting
16	309-0458	1	Thermostat, By-pass (192°F)
17	131-0335	1	Gasket, Water Pump Backplate
18	309-0462	1	Thermostat (180°F)

# FLYWHEEL

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	104-1260	1	Flywheel (Includes Ring Gear and Alignment Pin)
2	104-1185	1	Gear, Ring
3	104-1171	1	Pin, Alignment
4	720-1804	6	Screw, Cap - Hex Head (M10 X 38 MM)

# FLYWHEEL HOUSING

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	101-0697	1	Housing, Flywheel (Includes Seal and Indicator)
2	718-1078	6	Screw, Cap - Hex Head (M12 X 50 MM)
3	740-1801	6	Washer, Flat (M12)
4	160-1292	1	Indicator, Timing
5	101-0592	1	Plug, Timing Opening
6	101-0630	1	Seal, Flywheel Housing

## STARTER

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	191-1394	1	Starter, 12 Volt (See Separate Group For Components)
2	718-1074	2	Screw, Cap - Hex Head (M12 X 30 MM)
3	740-1801	2	Washer, Flat (M12)

## STARTER COMPONENTS

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
	191-1394	1	Starter, 12 Volt - Complete
1	191-1450	1	Screw Set
2	191-1449	1	Bracket Assembly, Front (Includes Bearing)
3	191-1448	1	Clutch Assembly (Includes Parts Marked *)
4	191-1445	1	* Gear Set (Includes Gear and Clutch)
5	191-1446	1	Gear
6	191-1447	1	Clutch.
7	191-1444	1	* Cover Set (Includes Cover, Plate, Washers, Snap Ring, and Screws)
8	191-1443	1	* Pinion Set (Includes Pinion, Spring, and Stopper Set)
9	191-1442	1	Stopper Set (Includes Stopper and Ring)
10	191-1441	1	Lever Assembly
11	191-1440	1	Spring Set
12	191-1439	1	Bracket Assembly, Center
13	191-1438	1	Armature Assembly (Includes Bearings)
14	191-1437	1	Bearing, Center
15	191-1436	1	Bearing, Rear
16	191-1435	1	Yoke Assembly (Includes Pole Shoes, Field Coil, and Positive Brushes)
17	191-1434	1	Brush Holder (Includes Negative Brushes)
18	191-1433	4	Spring, Brush
19	191-1432	1	Bracket, Rear
20	191-1431	1	Bolt Set
21	191-1430	1	Switch Assembly

\* - Parts Included In 191-1448 Clutch Assembly.

# BATTERY CABLE

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	416-0789	1	Cable, Battery - Negative (250 MM)
2	416-0788	1	Cable, Battery - Positive (410 MM)
3	416-0790	1	Cable, Battery - Jumper
4	416-0776	1	Tray, Battery
5	750-1006	3	Nut, Hex (M8)
6	850-2008	3	Washer, Lock (M8)
7	718-1071	1	Screw, Cap - Hex Head (M12 X 16 MM)

# GLOW PLUG

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	333-0195	6	Plug, Glow (12 Volt)
2	336-4131	3	Lead, Glow Plug
3	333-0198	1	Resistor, Ballast
4	750-1002	6	Nut, Hex (M5)
5	850-2005	6	Washer, Lock - Spring (M5)



# ENGINE ALTERNATOR

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	191-1360	1	Alternator (Includes Fan) (See Separate Group For Components)
3	191-1339	1	Pulley, Alternator
4	191-1331	1	Bracket, Alternator Mounting
5	191-1321	1	Spacer, Alternator Bracket
6	718-1037	4	Screw, Cap - Hex Head (M8 X 25 MM)
7	740-1006	4	Washer, Flat (M8)
8	191-1365	1	Strap, Alternator Adjusting
9	750-1008	1	Nut, Hex (M10)
10	718-1036	2	Screw, Cap - Hex Head (M8 X 20 MM)
11	740-1006	2	Washer, Flat (M8)
12	718-1067	1	Screw, Cap - Hex Head (M10 X 90 MM)
13	740-1008	1	Washer, Flat (M10)
14	191-1322	1	Spacer, Alternator Strap

# ALTERNATOR COMPONENTS

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
	191-1360	1	Alternator, Complete
1	191-0943	1	Fan, Alternator
2	191-1454	1	Diode, Isolation
3	191-1453	1	Diode, Rectifier - Negative
4	191-1452	1	Diode, Rectifier - Positive
5	191-0659	1	Brush Assembly
6	191-1457	1	Regulator, Voltage

NOTE: Components not listed, refer to your nearest Motorola dealer.

## ENGINE MOUNT

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	403-1929	2	Mount, Engine - Rear
2	402-0466	3	Cushion, Mounting (Front and Rear)
3	720-1072	12	Screw, Cap - Hex Head (M12 X 20 MM)
4	720-1073	3	Screw, Cap - Hex Head (M12 X 25 MM)
5	402-0503	1	Spacer, Engine Mount (Front Mount)
6	850-2012	15	Washer, Lock - Spring (M12)

## COOLING SYSTEM

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	130-1900	1	Housing, Radiator (Unhoused Sets)
2	503-0365	4	Clamp, Hose
3	130-1929	1	Shroud, Radiator Mount
4	130-1903	2	Mount, Radiator
5	405-2822	1	Grille, Radiator
6	130-1818	1	Radiator
7	130-1928	1	Cap, Radiator
8	503-1071	1	Hose, Radiator (Upper)
9	503-1070	1	Hose, Radiator (Lower)
10	130-1835	1	Baffle, Air
11	130-1899	2	Support, Front
12	SCREW, CAP - HEX HEAD		
	718-1053	6	M10 X 20 MM
	718-1003	4	M5 X 10 MM
	718-1017	6	M6 X 10 MM
	718-1032	8	M8 X 10 MM
13	WASHER, LOCK - SPRING		
	850-2010	6	M10
	740-1002	4	M5
	740-1004	6	M6
	850-2008	8	M8
14	750-1008	6	Nut, Hex (M10)
15	130-1986	1	Adapter, Duct

# AIR CLEANER

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	140-1091	1	Cleaner, Air
2	140-0961	1	Indicator, Service
3	503-1065	1	Hose, Air Cleaner
4	503-0465	2	Clamp, Hose
5	505-0098	1	Nipple, Pipe
6	140-1089	1	Element, Air Cleaner

# FAN AND SHROUD

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	FAN, COOLING		
	130-1922	1	Push
	130-1995	1	Suction
2	SPACER, FAN		
	130-1873	1	Push Type Fan
	130-1872	1	Suction Type Fan
3	130-1962	1	Shroud, Fan
4	SCREW, CAP - HEX HEAD		
	718-1045	4	M8 X 65 MM (Push Type Fan)
	718-1044	4	M8 X 60 MM (Suction Type Fan)
5	850-2008	12	Washer, Lock - Spring (M8)
6	130-1893	1	Guard, Fan
7	130-2086	1	Bracket, Guard Mounting
8	130-1961	1	Bracket, Guard Mounting
9	718-1032	4	Screw, Cap - Hex Head (M8 X 10 MM)
10	740-1006	12	Washer, Flat (M8)
11	130-2085	1	Clip, Fan Shroud
12	718-1005	1	Screw, Cap - Hex Head (M5 X 14 MM)
13	850-2005	1	Washer, Lock - Spring (M5)

# BELT GUARD

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	GUARD, BELT		
	130-1993	1	75 MM Wide
	130-2079	1	58.8 MM Wide
2	718-1047	1	Screw, Cap - Hex Head (M8 X 75 MM)
3	740-1006	2	Washer, Flat (M8)

# CHASSIS

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	403-1856	1	Skid
2	403-1928	2	Mount, Engine
3	337-0090	1	Strap, Electrical
4	332-1473	1	Lug, Solderless
5	718-1074	8	Screw, Cap - Hex Head (M12 X 30 MM)
6	850-2012	8	Washer, Lock Spring (M12)
7	750-1010	8	Nut, Hex (M12)
8	850-2008	1	Washer, Lock - Spring (M8)
9	750-1006	1	Nut, Hex (M8)
10	718-1072	3	Screw, Cap - Hex Head (M12 X 20 MM)

# MOUNTED MUFFLER

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	505-0203	1	Coupling, Pipe (2")
2	505-0454	1	Union, Pipe (2")
3	155-1936	1	Tube, Exhaust
4	155-1421	1	Shield, Rain
5	895-0158	1	Asbestos
6	155-1916	1	Flange, Exhaust
7	800-2034	2	Screw, Cap - Hex Head (M6 X 20 MM)
8	850-2006	2	Washer, Lock - Spring (M6)
9	860-2007	2	Nut, Hex (M6)
10	718-1805	2	Screw, Cap - Hex Head (M10 X 25 MM)
11	MUFFLER		
	155-1932	1	Industrial
	155-1268	1	Residential
	155-1614	1	Critical
12	SCREW, CAP - HEX HEAD		
	800-2067	4	Industrial Muffler (M8 X 70 MM)
	800-2095	6	Residential Muffler and Critical (M10 X 70 MM)
13	WASHER, LOCK - SPRING		
	850-2008	4	Industrial (M8)
	850-2010	6	Residential and Critical (M10)
14	BAND, MUFFLER		
	140-0317	2	Industrial Muffler
	140-0649	3	Residential Muffler
	140-0752	3	Critical Muffler
15	155-1931	1	Shield, Heat
16	SPACER, MUFFLER		
	155-1430	4	Industrial Muffler
	155-1430	6	Residential and Critical Mufflers
17	WASHER, FLAT		
	526-2105	4	Industrial Muffler
	526-2105	6	Residential and Critical Mufflers

# COOLANT HEATER - OPTIONAL

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	800-2025	2	Screw, Cap - Hex Head (M6 X 8 MM)
2	850-2006	2	Washer, Lock - Spring (M6)
3	HEATER, ENGINE		
	333-0204	1	120 Volt
	333-0202	1	240 Volt
4	503-1108	1	Hose
5	309-0307	1	Switch, Oil Pressure
6	503-0183	4	Clamp, Hose
7	502-0812	2	Tee, Male (3/8")
8	505-0017	2	Bushing (3/8")
9	505-0110	2	Plug (3/8")
10	503-1109	1	Hose
11	502-0813	1	Tee, Male (1/8")
12	505-0057	1	Plug (1/8")
13	501-0004	1	Line, Flex Fuel
14	819-1048	4	Screw, Pan Head (#8 - 32 X 1/2")
15	800-2029	2	Screw, Cap - Hex Head (M6 X 12)
16	850-2007	2	Nut, Hex (M6)
17	850-2006	2	Washer, Lock - Spring (M6)
18	403-1986	1	Bracket, Heater Mounting
19	502-0033	1	Adapter, Pipe

## HOUSING

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	405-2848	1	Grille, Door (Includes Clips)
2	870-2026	28	Nut, Weld (M6)
3	405-2831	2	Post, Rear Housing
4	301-6783	2	Bracket, Meter Panel
5	405-2840	2	Post, Side Grille
6	405-2835	1	Roof, Housing
7	405-2930	6	Door, Housing (Includes Clips)
8	718-1053	6	Screw, Cap - Hex Head (M10 X 20 MM)
9	850-2010	6	Washer, Lock - Spring (M10)
10	750-1008	6	Nut, Hex (M10)
11	718-1019	40	Screw, Cap - Hex Head (M6 X 14 MM)
12	850-2006	40	Washer, Lock - Spring (M6)
13	750-1006	12	Nut, Hex (M6)
14	405-1872	30	Clip, Door
15	818-0150	60	Rivet, Door Clip

# GENERATOR (4 POLE)

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	STATOR ASSEMBLY, WOUND		
			1 - Phase
	220-3590	1	50 Hertz
	220-3620	1	50 Hertz - Environmentally Protected
	220-3532	1	60 Hertz
	220-3570	1	60 Hertz - Environmentally Protected
			3 - Phase
	220-3591	1	50 Hertz
	220-3618	1	50 Hertz - Environmentally Protected
	220-3560	1	60 Hertz
	220-3588	1	60 Hertz - Environmentally Protected
2	ROTOR ASSEMBLY, WOUND (INCLUDES PARTS MARKED *)		
	201-2956	1	1 - Phase
	201-2948	1	3 - Phase
3	* ROTOR ONLY, WOUND		
	201-2757	1	1 - Phase
	201-2590	1	3 - Phase
4	515-0094	1	* Key, Woodruff
5	201-2152	1	* Rotor Assembly, Exciter (Includes Parts Marked +)
6	+ RECTIFIER ASSEMBLY		
	358-0069	1	Positive
	358-0070	1	Negative
7	526-0008	10	*+ Washer, Flat (13/64" ID X 7/16" OD X 1/32" Thk)
8	870-0131	6	*+ Nut, Hex (#10 - 32)
9	853-0008	4	*+ Washer, Lock - Spring (#10)
10	813-0100	4	*+ Screw, Machine - Round Head (#10 - 32 X 1/2")
11	232-2398	1	* Spacer, Bearing
12	510-0112	1	* Bearing, Ball
13	870-0284	1	* Nut, Nylon Insert - Locking
14	205-0132	1	* Fan, Cooling
15	232-2843	1	* Disc, Generator Drive
16	526-0249	8	* Washer, Flat (15/32" ID X 1" OD X .125" Thk)
17	805-0025	8	* Bolt, Place (7/16 - 14 X 3/4")
18	520-2405	4	Stud, End Bell Mounting
19	211-0342	1	Bell, End
20	220-2010	1	Stator, Wound - Exciter
21	232-2584	4	Retainer, Stator - Exciter
22	853-0013	4	Washer, Lock - ET (1/4")
23	800-0004	4	Screw, Cap - Hex Head (1/4 - 20 X 5/8")
24	232-2418	1	Connection Board Assembly
25	815-0194	2	Screw, Cap - Hex Head W/ET (#10 - 32 X 3/8")
26	509-0094	1	Seal, "O" Ring
27	800-2085	8	Bolt, Place (M10 X 20 MM)
28	800-2087	12	Screw, Cap - Hex Head (M10 X 30 MM)
29	860-2009	4	Nut, Hex (M10)
30	850-2010	24	Washer, Lock - Spring (M10)

\* - Parts Included In Rotor Assembly.

+ - Parts Included In 201-2152 Exciter Rotor Assembly.

# CONTROL HOUSING

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	301-6390	1	Cover, Control and Output Box
2	301-6388	1	Bracket, Output Box
3	718-1019	10	Screw, Cap - Hex Head (M6 X 14 MM)
4	850-2006	16	Washer, Lock (M6)
5	718-1017	6	Screw, Cap - Hex Head (M6 X 10 MM)
6	800-2027	4	Screw, Cap - Hex Head (M6 X 10 MM)
7	850-2006	4	Washer, Lock (M6)
8	301-6726	1	Support, Meter Panel - Unhoused Sets
9	301-6832	4	Bracket, Meter Panel - Unhoused Sets
10	402-0505	4	Isolator, Vibration - Unhoused Sets
11	800-4074	12	Screw, Cap - Hex Head (M4 X 12 MM) - Unhoused Sets
12	526-2050	16	Washer, Flat (M4) - Unhoused Sets
13	850-2004	16	Washer, Lock - Spring (M4) - Unhoused Sets
14	860-2005	12	Nut, Hex (M4) - Unhoused Sets
15	301-6391	1	Door, Control (Includes Clips)
16	301-6405	1	Door, Output (Includes Clips)
17	405-2848	1	Grille, Housing Door (Includes Clips)
18	405-1872	8	Clip, Door



# METER PANEL

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	301-6684	1	Panel, Meter
3	LENS, WARNING LIGHT - TABULATED		
	322-0303	1	2 Light Control - Standard
	322-0305	1	11 Light Control - Optional
4	322-0306	1	Cover, Warning Light - Blank - 2 Light Control - Standard
4	322-0304	1	Lens, Warning Light - Tabulated - 11 Light Control - Optional
5	301-6660	1	Shield, Lamp
6	302-1385	1	Meter, Hour
7	PROTECTOR, GAUGE (FOAM)		
	302-1386	4	2 Light Control - Standard
	302-1386	7	11 Light Control - Optional
8	517-0169	2	Plug, Dot Button
10	302-1397	1	Spacer, Hour Meter
11	303-0245	1	Knob, Rotary Switch
12	SWITCH, ROTARY		
	308-0654	1	2 Light Control - Standard
	308-0653	1	11 Light Control - Optional
12A	332-2500	1	Circuit, Flexible - Rotary Switch - 11 Light Control - Optional
13		1	Board Assembly, Circuit - Upper (See Separate Group)
14		1	Board Assembly, Circuit - Lower (See Separate Group)
15	800-4075	11	Screw, Cap - Hex Head (M4 X 16 MM)
16	850-2004	19	Washer, Lock - Spring (M4)
17	526-2050	15	Washer, Flat (M4)
19	302-1403	As Req.	Cover, Meter Opening (Foam 49 MM X 86 MM)
20	302-1404	3	Cover, Meter Opening (Foam 60 MM X 58 MM)
21	338-1586	1	Cable, Assembly, Ribbon (Includes Ribbons Marked *)
22	332-2553	2	Standoff
23	332-2552	3	Standoff
24	301-6950	1	Cover, Meter Panel
25	800-4073	4	Screw, Cap - Hex Head (M4 X 10 MM)
26	814-2145	8	Screw, Machine - Flat Head (M4 X 16 MM)
27	338-1565	1	* Cable, Ribbon (J4 To J10)
28	338-1566	1	* Cable, Ribbon (J7 To J14)
29	338-1567	1	* Cable, Ribbon (J5 To J13)
30	338-1568	1	* Cable, Ribbon (J16 To J12)
31	338-1569	1	* Cable, Ribbon (J8 To J9)
32	338-1570	1	* Cable, Ribbon (J15 To J11)

\* - Parts Included In 338-1586 Ribbon Cable Assembly.

# OUTPUT BOX (WITHOUT CIRCUIT BREAKERS)

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	301-6393	1	Box, Output
2	405-2831	1	Post, Rear Housing
3	LEAD, OUTPUT		
	336-8350	2	1 - Phase
	336-8350	3	3 - Phase
4	INSULATOR		
	332-2370	6	1 - Phase
	332-2370	11	3 - Phase
5	337-1273	1	Bar, Neutral
6	TRANSFORMER, CURRENT		
	302-0079	2	1 - Phase
	302-0079	3	3 - Phase
7	800-2031	6	Screw, Cap - Hex Head (M6 X 1 MM)
8	526-0021	2	Washer, Flat (1/4")
9	850-2006	6	Washer, Lock - Spring (M6)
10	CLAMP, CURRENT TRANSFORMER - UPPER		
	302-0235	2	1 - Phase
	302-0235	2	3 - Phase
11	CLAMP, CURRENT TRANSFORMER - LOWER		
	302-0236	2	1 - Phase
	302-0236	3	3 - Phase
12	SHIM, TRANSFORMER		
	302-0253	2	1 - Phase
	302-0253	3	3 - Phase
13	308-0656	1	Switch, High - Low
14	SCREW, CAP - HEX HEAD (1/4 - 20 X 3/8")		
	800-0002	6	1 - Phase
	800-0002	11	3 - Phase
15	WASHER, FLAT (M6)		
	740-1004	8	1 - Phase
	740-1004	12	3 - Phase
16	SCREW, CAP - SOCKET HEAD (1/4 - 20 X 1 1/2")		
	803-0042	4	1 - Phase
	803-0042	9	3 - Phase
17	NUT, HEX (1/4 - 20)		
	862-0001	8	1 - Phase
	862-0001	15	3 - Phase
18	WASHER, LOCK - SPRING		
	850-0040	20	1 - Phase
	850-0040	34	3 - Phase
20	508-0235	1	Grommet
21	860-2004	1	Nut, Hex (M3.5)
22	526-2049	1	Washer, Flat (M3.5)
24	850-2004	As Req.	Washer, Lock - Spring (M4)
25	870-2026	4	Nut, Weld
26	860-2007	2	Nut, Hex (M6)
27	822-3083	As Req.	Screw, Machine - Pan Head (M4 X 60 MM)
28	860-2005	2	Nut, Hex (M4) - 11 Light Control - Optional
29	800-0004	2	Screw, Cap - Hex Head (1/4 - 20 X 5/8")
30	301-6943	1	Bracket, Current Transformer - 11 Light Control - Optional
31	508-0109	1	Grommet, Rubber
32	526-2050	1	Washer, Flat (M4)

OUTPUT BOX (WITHOUT CIRCUIT BREAKERS) (Continued)

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
33	800-2034	5	Screw, Cap - Hex Head (M6 X 20 MM)
34	850-2006	5	Washer, Lock (M6)
35	800-0009	3	Screw, Cap - Hex Head (1/4 - 20 X 1 1/2")
36	526-0021	6	Washer, Flat (1/4")
37	850-0040	9	Washer, Lock - Spring (1/4")
38	862-0001	6	Nut, Hex (1/4 - 20)
39	860-2007	5	Nut, Hex (M6)
40	740-1004	6	Washer, Flat (M6)

# OUTPUT BOX (WITH CIRCUIT BREAKERS) - OPTIONAL

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	301-6393	1	Box, Output
2	405-2831	1	Post, Rear Housing
3	336-8351	3	Lead, Output
4	332-2370	5	Insulator
5	337-1273	1	Bar, Neutral
6	302-0079	4	Transformer, Current
7	800-2031	6	Screw, Cap - Hex Head (M6 X 1 MM)
8	526-0021	2	Washer, Flat (17/64" ID X 3/4" OD X 1/16" Thk)
9	850-2006	6	Washer, Lock - Spring (M6)
10	302-0235	4	Clamp, Current Transformer - Upper
11	302-0236	4	Clamp, Current Transformer - Lower
12	302-0253	4	Shim, Current Transformer
13	308-0656	1	Switch, High - Low
14	800-0002	5	Screw, Cap - Hex Head (1/4 - 20 X 3/8")
15	740-1004	6	Washer, Flat (M6)
16	803-0042	3	Screw, Cap - Socket Head (1/4 - 20 X 1 1/2")
17	862-0001	6	Nut, Hex (1/4 - 20)
18	850-0040	16	Washer, Lock - Spring (1/4")
20	508-0235	1	Grommet
21	860-2004	1	Nut, Hex (M3.5)
22	526-2049	1	Washer, Flat (M3.5)
24	850-2004	1	Washer, Lock - Spring (M4)
25	870-2026	4	Nut, Weld
26	860-2007	2	Nut, Hex (M6)
27	822-3083	8	Screw, Machine - Pan Head (M4 X 60 MM)
28	860-2005	2	Nut, Hex (M4)
29	800-0004	2	Screw, Cap - Hex Head (1/4 - 20 X 5/8")
30	301-6943	1	Bracket, Current Transformer
31	508-0104	1	Grommet, Rubber
32	526-2050	8	Washer, Flat (M4)
33	800-4073	4	Screw, Cap - Hex Head (M4 X 10 MM)
34	320-0346	1	Breaker, Circuit
35	301-6869	1	Bracket, Circuit Breaker
36	812-0092	4	Screw, Machine - Round Head (#8 - 32 X 2 3/4")
37	870-0221	4	Nut, Hex W/ET (#8 - 32)
33	800-2034	5	Screw, Cap - Hex Head (M6 X 20 MM)
34	850-2006	5	Washer, Lock (M6)
35	800-0009	3	Screw, Cap - Hex Head (1/4 - 20 X 1 1/2")
36	526-0021	6	Washer, Flat (1/4")
37	850-0040	9	Washer, Lock - Spring (1/4")
38	862-0001	6	Nut, Hex (1/4 - 20)
39	860-2007	5	Nut, Hex (M6)

# CIRCUIT BOARD ASSEMBLY - UPPER

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	332-2489	1	Panel, Printed Circuit
2	302-1387	1	Meter, Voltage (Includes Foam Strip)
3	302-1388	1	Meter, Ampere (Includes Foam Strip) - Optional
4	METER, FREQUENCY (INCLUDES FOAM STRIP)		
	302-1398	1	50 Hertz
	302-1389	1	60 Hertz
5	302-1390	1	Meter, Watt (Includes Foam Strip)
6	302-1391	1	Meter, Power Factor (Includes Foam Strip)
7	302-1382	1	Gauge, Voltage - DC
8	193-0312	1	Gauge, Oil Pressure
9	193-0315	1	Gauge, Water Temperature
10	193-0314	1	Gauge, Oil Temperature - Optional
11	302-1381	1	Gauge, Engine Speed (rpm) - Optional
12	193-0313	1	Gauge, Fuel Pressure - Optional
13	302-1384	As Req.	Gasket, Meter
14	322-0300	As Req.	Socket, Lamp
15	332-2497	2	Connector, Clip (12 - Place)
16	332-2495	2	Connector, Clip (8 - Place)
17	350-1191	1	Resistor (Includes Terminals) - 2 Light Control
18	860-2007	2	Nut, Hex (M6) - 2 Light Control - Standard
19	850-2006	2	Washer, Lock - Spring (M6) - 2 Light Control - Standard
20	526-2080	2	Washer, Flat (M6) - 2 Light Control - Standard
21	800-2029	2	Screw, Cap - Hex Head (M6 X 12 MM) - 2 Light Control - Standard
22	332-2547	1	Bracket, Strain Relief
23	332-2548	1	Bracket, Strain Relief
24	332-2502	1	Bracket, Strain Relief
25	332-2550	1	Bracket, Strain Relief
26	332-2549	1	Gasket, Strain Relief
27	332-2506	1	Gasket, Strain Relief
28	800-4047	6	Screw, Cap - Hex Head (M3 X 20 MM)
29	850-2003	6	Washer, Lock - Spring (M3)
	302-1383	As Req.	Strip, Foam - Meter Mounting

## CIRCUIT BOARD ASSEMBLY - LOWER

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	332-2499	1	Panel, Printed Circuit
2	322-0307	As Req.	Light, Twist
3	322-0300	As Req.	Socket Assembly
4	332-2511	2	Contact, Hour Meter
5	304-0759	1	Resistor, Variable
6	332-2496	2	Connector, Clip (10 - Place)
7	332-2498	2	Connector, Clip (13 - Place)
8	308-0648	1	Switch, Rocker (On-Off-Remote)
9	308-0649	1	Switch, Rocker (Glow Plug/Lights)
10	308-0651	1	Switch, Rocker (Reset/Lamp Test)
11	308-0647	1	Switch, Rocker (Breaker) - Optional
12	308-0650	1	Switch, Rocker (Sync. Light) - Optional

## CONTROL BRACKET ASSEMBLY

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	315-0343	1	Reactor
2	315-0431	1	Transformer, Voltage Regulator
3	853-2004	2	Washer, Lock - ET (M4)
4	800-4078	2	Screw, Cap - Hex Head (M4 X 30 MM)
5	305-0675	1	Bridge, SCR
6	850-2006	6	Washer, Lock - Spring (M6)
7	526-2081	6	Washer, Flat (M6)
8	800-2025	1	Jumper, Glow Plug
10	333-0198	1	Resistor, Ballast
11	337-1315	1	Jumper, Solenoid
12	307-2025	2	Relay
13	HARNES, WIRING - TRANSFORMER		
	338-1576	1	1 - Place
	338-1555	1	3 - Place
14	850-2004	As Req.	Washer, Lock - Spring (M4)
15	526-2050	As Req.	Washer, Flat (M4)
16	800-4071	As Req.	Screw, Cap - Hex Head (M4 X 6 MM)
17	315-0529	As Req.	Transformer, Stepdown
18	301-6745	1	Bracket, Control
19	338-1548	1	Harness Assembly, Wiring - Solenoid
20	336-8436	1	Lead, Start (Includes Rectifier)
21	336-8437	1	Lead, Glow Plug
22	357-0030	1	Rectifier, Silicon (Part of Start Lead)

# MOTHER BOARD ASSEMBLY

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
	BOARD ASSEMBLY, MOTHER (COMPLETE)		
	300-2551	1	2 Light Control - Standard
	300-2553	1	11 Light Control - Optional
1	307-2013	1	Relay
2	307-1673	5	Spring, Relay Hold-down
3	307-2012	1	Relay
4	300-2385	1	Board Assembly, Printed Circuit
4A	SOCKET, RELAY (PART OF PRINTED CIRCUIT BOARD)		
	323-1083	4	14 - Place
	323-1235	1	16 - Place
5	300-2388	1	Board Assembly, Printed Circuit - Cycle Cranker - 11 Light Control - Optional
6	332-2523	1	Card, Retainer - 11 Light Control - Optional
7	800-2004	As Req.	Screw, Cap - Hex Head (M5 X 12 MM)
8	860-2006	As Req.	Nut, Hex (M5)
9	856-2005	As Req.	Washer, Lock - EIT (M5)
10	526-2061	3	Washer, Flat (M5)
11	332-2503	1	Bracket, Strain Relief (3.6 MM Diameter Holes)
12	332-2504	1	Bracket, Strain Relief (2.5 MM Diameter Holes)
13	332-2505	2	Gasket, Strain Relief Brackets
14	800-4045	4	Screw, Cap - Hex Head (M3 X 13 MM)
15	850-2003	4	Washer, Lock (M3)
16	321-0083	2	Fuse (5 Ampere)
17	321-0085	1	Fuse (8 Ampere)
18	307-1654	3	Relay
19	332-2417	1	Jumper
20	332-2158	2	Guide, PC Board Locking
21	332-2554	2	Bracket, Guide
22	332-2497	3	Clip, Connector (12 Pin)
23	332-2498	3	Clip, Connector (13 Pin)
24	350-1192	2	Resistor
25	336-8894	1	Lead (11 Light Control - Optional)
26	359-0057	1	Diode (Includes Terminals)

# GENERATOR SET CONTROL

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	301-6395	1	Box, Control
2	870-0221	4	Nut, Hex - W/ET (#8 - 32)
3	402-0354	14	Insulator, Vibration
4	526-2050	14	Washer, Flat (M4)
5	812-0079	5	Screw, Machine - Round Head (#8 - 32 X 1/2")
6	850-0025	5	Washer, Lock - Spring (#8)
7	332-1265	5	Insulator, Standoff
9	300-2386	1	Board, Printed Circuit - Lamp Test
10	BOARD ASSEMBLY, MOTHER (SEE SEPARATE GROUP FOR COMPONENTS)		
	300-2551	1	2 Light Control - Standard
	300-2553	1	11 Light Control - Optional
11	800-2004	4	Screw, Cap - Hex Head (M5 X 12 MM)
12	526-2060	4	Washer, Flat (M5)
13	850-2005	4	Washer, Lock - Spring (M5)
14	860-2006	4	Nut, Hex (M5)
15	332-1956	1	Board, Printed Circuit - Regulator
16	301-6777	1	Bracket, Circuit Breaker
17	812-0059	2	Screw, Machine - Round Head (#6 - 32 X 1/4")
18	850-0020	2	Washer, Lock - Spring (#6)
19	332-0607	1	Block, Terminal
20	822-3075	2	Screw, Machine - Pan Head (M4 X 16 MM)
21	850-2004	6	Washer, Lock - Spring (M4)
22	860-2005	6	Nut, Hex (M4)
23	332-1248	1	Strip, Marker
24	508-0237	2	Grommet
25	BOARD PRINTED CIRCUIT - MULTI LIGHT CONTROL		
	300-2382	1	2 Light Control - Standard
	300-2383	1	11 Light Control - Optional
	300-2384	1	11 Light Control W/Watt Meter and Power Factor Meter - Optional
26		1	Bracket Assembly, Control (See Separate Group)
27	508-0236	3	Grommet, Rubber
28	800-2031	2	Screw, Cap - Hex Head (M6 X 14 MM)
29	850-2006	2	Washer, Lock - Spring (M6)
30	870-2026	2	Nut, Weld
32	338-1545	1	Cable, Ribbon (12 - Place)
33	338-1529	1	Cable, Ribbon (13 - Place)
36	338-1539	1	Harness, Wiring - Regulator (Includes Circuit Breaker)
36A	320-0431	1	Breaker, Circuit (Part of Wiring Harness)
37	405-2831	1	Post, Rear Housing
38	870-2026	2	Nut, Square (M6)
39	800-2034	10	Screw, Cap - Hex Head (M6 X 20 MM)
40	850-2006	10	Washer, Lock (M6)
41	307-1575	1	Relay
42	307-1690	1	Plug, Relay



# WATTS AND POWER FACTOR TRANSDUCER - OPTIONAL

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	812-0075	4	Screw, Machine - Round Head (#8 - 32 X 1/4")
2	850-0025	4	Washer, Lock - Spring (#8 - 32)
3	301-6847	1	Bracket, Transducer
4	TRANSDUCER, POWER FACTOR		
	302-1419	1	1 - Phase
	302-1371	1	3 - Phase
5	TRANSDUCER, WATT		
	302-1407	1	50 Hertz - 1 - Phase
	302-1083	1	50 Hertz - 3 - Phase
	302-1113	1	60 Hertz - 1 - Phase
	302-1082	1	60 Hertz - 3 - Phase
6	508-0237	1	Grommet, Rubber
7	800-4073	8	Screw, Cap - Hex Head (M4 X 10 MM)
8	850-2004	16	Washer, Lock - Spring (M4)
9	860-2005	16	Nut, Hex (M4)
10	800-2010	2	Screw, Cap - Hex Head (M5 X 20 MM)
11	850-2005	2	Washer, Lock - Spring (M5)
12	860-2006	2	Nut, Hex (M5)
13	402-0505	4	Isolator
14	HARNESS, WIRING		
	338-1606	1	1 - Phase
	338-1604	1	3 - Phase
15	870-0221	4	Nut, Hex W/ET (#8 - 32)
16	301-6938	1	Cover, Transducer
17	800-4073	4	Screw, Machine - Hex Head (M4 X 10 MM)
18	850-2004	4	Washer, Lock - Spring (M4)

# GENERATOR SET WIRING HARNESS - LEVELS 1, 2 AND 4

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	HARNESS, WIRING - ENGINE (NOT ILLUSTRATED)		
	338-1600	1	2 Light Control - Standard
	338-1601	1	11 Light Control - Optional
	338-1540	1	11 Light Control W/Watt Meter and Power Factor Meter - Optional
2	338-1562	1	Harness, Wiring - Generator Field (Not Illustrated)

# ENGINE MONITORING

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	150-1906	1	Sensor, Speed - Magnetic
2	193-0306	1	Sender, Water Temperature
3	193-0307	1	Sender, Oil Pressure
4	193-0325	1	Sender, Oil Temperature - Optional
5	193-0321	1	Sender, Fuel Pressure - Optional
6	193-0322	1	Sender, Low Coolant - Optional
7	309-0169	1	Switch, Low Oil Pressure (14#)
8	309-0437	1	Switch, High Engine Temperature (207 - 227°F)
9	309-0272	1	Switch, Low Oil Pressure (20#)
10	309-0436	1	Switch, High Engine Temperature (201 - 221°F) - Optional
11	309-0269	1	Switch, Low Engine Temperature - Optional
12	870-0196	1	Nut, Insulator
13	508-0015	1	Washer, Fibre
14	809-0035	1	Screw, Tapping - Round Head (#8 - 3/4")
15	332-1281	1	Bracket, Terminal Mounting

## SINGLE POINT LIFT (UNHOUSED SETS)

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
1	403-2035	1	Bar, Lifting
2	718-1073	2	Screw, Cap - Hex Head (M12 X 25 MM)
3	740-1010	2	Washer (M12)
4	403-2031	1	Yoke, Lifting
5	718-1054	4	Screw, Cap - Hex Head (M10 X 25 MM)

# SERVICE KITS AND MISCELLANEOUS

REF. NO.	PART NUMBER	QTY. USED	PART DESCRIPTION
	168-0160	1	Gasket Kit, Valve Grinding
	168-0162	1	Gasket Kit, Engine
	501-0441	1	Line, Fuel - Flexible
	501-0092	1	Line, Fuel - Flexible (60")
	525-0454	1	Paint, Greige Touch Up (13 Oz. Pressurized Can)

3/9/82  
sch